

Parameters

- b_t per capita birth rate (seasonal)
- Ψ 1/time in juvenile class
- μ 1/life expectancy from birth
- γ 1/incubation period
- α 1/infectious period
- β transmission coefficient

Variables

- S_V Susceptible (juvenile)
- S_A Susceptible (adult)
- E Exposed (not infectious)
- I Infectious ("rabid")

Derived quantities:

$$N = S_J + S_A + E + I \quad \text{Force of infection:}$$

$$\lambda = \frac{\beta I}{N}$$

